

WHAT IS CLAIMED IS:

1. A hemofiltration system for treating inflammatory mediator related diseases, the system comprising:

5 a hemofilter to receive blood from a specimen, the hemofilter removing selective inflammatory mediators from the blood; and
at least one therapeutic agent used in association with the hemofilter, the therapeutic agent to reduce
10 adverse inflammatory mediator effects.

2. The system of Claim 1, wherein the hemofilter comprises a 100 to 150 kiloDalton hemofilter.

15 3. The system of Claim 1, wherein the at least one therapeutic agent comprises a selective biological agent to reduce adverse inflammatory mediator effects.

20 4. The system of Claim 1, wherein the at least one therapeutic agent comprises a selective pharmaceutical agent to reduce adverse inflammatory mediator effects.

5. A method for treating inflammatory mediator related diseases, the method comprising:
receiving blood from a specimen;
filtering the blood using a hemofilter, the
5 hemofilter removing selective inflammatory mediators from the blood; and
providing at least one therapeutic agent, the therapeutic agent reducing adverse inflammatory mediator effects.

10 6. The method of Claim 5, wherein the therapeutic agent comprises a biological agent.

15 7. The method of Claim 5, wherein the therapeutic agent comprises a pharmaceutical agent.

8. The method of Claim 5, wherein the hemofilter comprises a 100 to 150 kiloDalton hemofilter.

20 9. The method of Claim 8, further comprising adsorptive device associated with the hemofilter.

10. The method of Claim 5, wherein the therapeutic agent comprises activated protein C.